

Meeting Minutes Transmittal/Approval
Unit Managers' Meeting
200 Area Groundwater and Source Operable Units
1200 Jadwin, Richland, Washington
February 21, 2008

APPROVAL: *md. Voogd for* Date: 3-20-08
Larry Romine, 200 Area Unit Manager, DOE/RL

APPROVAL: *Arlene C. Tortoso* Date: 3/20/08
Arlene Tortoso, 200 Area Assistant Manager, DOE/RL

APPROVAL: *Craig Cameron* Date: 5/2/08
Craig Cameron, 200 Area Unit Manager, EPA

APPROVAL: *John B. Price* Date: 4-30-08
John Price, 200 Area Unit Manager, Ecology

"HFFACO Action Plan Section 4.1 requires signature of agreements and commitments made during the Unit Manager Meeting. Approval of these minutes documents approval of agreements and commitments documented in Attachment 3 to these minutes. Approval does not apply to any other attachments, which are included in these minutes for informational purposes."

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Minutes of the 200 Area Unit Managers' Meeting of February 21, 2008 are attached.
Minutes are comprised of the following:

Attachment 1	Agenda
Attachment 2	Attendance Record
Attachment 3	Agreements and Issues List
Attachment 4	Action Item List
Attachment 5	Operable Units and Facilities Status
Attachment 6	200-UP-1 Uranium
Attachment 7	200-UP-1 Technetium-99
Attachment 8	Well 299-W15-6 Carbon Tetrachloride (ug/L)
Attachment 9	200-PW-1 OU: 3 Narrow Diameter Vapor Extraction Wells
Attachment 10	Figure 1: Well 699-52-55A Location Map
Attachment 11	Figure 2: Wells 299-E33-343, 299-E33-344, and 299-E33-3345 Location Map
Attachment 12	Map showing location of new groundwater well C5572 (299-W11-88)
Attachment 13	C5572 Well Installation Characterization – Groundwater Field Screening Results (Draft)

200 AREA UNIT MANAGERS' MEETING AGENDA

1200 Jadwin/Rm 1-C-1
February 21, 2008
8:30 AM

SOURCE REMEDIES AND D4

- 200-CW-3
- BC Control Area
- 200-UW-1
- Facilities (D4)
- Recap Agreements, Issues and Action Items

GROUNDWATER and SOURCE OPERABLE UNITS

- 200-UP-1, 200-CS-1 and 200-CW-1 Group
- Supplemental Characterization Model Groups 2/4/6 and 5
- 200-BC-1, 200-IS-1, 200-CW-5 and 200-SW-1/2 Group
- 200-ZP-1, 200-PW-1/3/6 Group
- 200-MW-1 Group and 200-PW-2/4
- 200-MG-1/2 and Eco. Group
- 200-BP-5 Group and 200-PO-1
- 200-SC-1 Group and 200-LW-1/2 Group
- 200-TW-1 and 200-PW-5
- 200-TW-2 Group
- 200-UR-1
- Recap Agreements, Issues and Action Items

**DISTRIBUTION
UNIT MANAGERS' MEETING,
200 AREA GROUNDWATER SOURCE OPERABLE UNITS
February 21, 2008**

DOE/RL

(No hard copy distribution)

EPA

Craig Cameron

B1-46

Ecology

John Price

H0-57

FH

Janice Williams (original)

E6-35

Administrative Record (2)

H6-08

Correspondence Control

A3-01

200 Area Unit Managers Status Meeting
February 21, 2008

Please print clearly and use black ink

PRINTED NAME	ORGANIZATION	O.U. ROLE	TELEPHONE
Kevin Leary	200-OW-1 DOE-RL	200-OW-1 IS 11	373-7285
Tony Knepp	FH	UP-1	438-6453
Rick Bond	ECY	DY	372-7885
Mike Hickey	FH	CW-5 IS-1	373.3092
John Winterhalter	FH	BCO	372-8144
Rob Piro	FH	TOP	377-3285
Jeanne Wallace	Ecology	IS-1	372-7931
Tom Watson	FH	C.P.	376-5450
Max Jewett	FH	C.P.	
Craig Cameron	EPA		376-8665
Greg Thomas	FH	BP-5	373-3907
Mark Berada	FH	BC-1	374-0002
Arlene Tortoso	DOE-RL	200 Area Unit	373 9631
Rod Lobos	EPA		
William Barrett	FH	FW-1/2	430-5939

200 Area Unit Managers Status Meeting
February 21, 2008

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PRINTED NAME	ORGANIZATION	O.U. ROLE	TELEPHONE
Stanley C. Simpson	ODOE		(541) 240-0161
Jennifer Ollero	ECY		308 372-7988
Gloria Cummins	FH	PO-1 PROJECT	372-2484
Marcy Dooce	DOE	RPM	372-8378
Michael Stevens	FGG	DED	430 5756
Ed JACOBS	"	DD	376-2859
Jon Lindberg	FH	PO-1	376-4511
Jennie Saver	FH	DAD	376-3762
Chris Wollam	FH	UR-1 Pj Mgr	373-1587
Frank Roddy	DOE	UR-1, MW 1/2 SW 1/4 2 W 1/2 Westlake, DCA	372-0945
Wade Woolery	DOE	DED	372-2889
Laura Buelow	EPA		376-9466
RD H. H. H. H.	POE-RL	PO-1 PW-1 LP-5 TWR-1	373-7626
John Price	Ecology	TPA Project Mgr	372-7921
Zelma Jackson	Ecology	UP-1, PO-1	
Brian Charbonneau	DOE	TPA PM	373-6137
Virginia Rohay	FH	200-PW-1	373 3803
Mark Byrnes	FH	2P-1 Project Manager	373-3996
Ken Brunk	FH	ESSI CW-1	376-2662
JEFF BERLIN	FH	SW-2	376-2389
Vay Baker	FH	SC-1/LW-1/2	376-4416

**Issue Resolution Meeting
Agreements and Issues List
February 21, 2008
200 Area Unit Managers' Meeting**

Agreement: Per previous meetings, EPA agrees that RL does not need to submit the Surveillance and Maintenance Plans for U Plant and UO3.

Issue: None identified

Delegations for February 21, 2008 UMM meeting:

EPA	Craig Cameron
Ecology	John Price
DOE/RL	Briant Charboneau
	Margo Voogd for Larry Romine

200 Area Unit Managers' Meeting

Attachment 4

OPEN ACTION ITEM TRACKING

Action #	Action/Subject	Assigned To	Owed To	Assigned Date	Original Due Date	Adjusted Due Date	Status
107	Draft an agreement for the Parties as to Ecology expectations for 200-MG-1/2 RTD sites (no modeling will be required to show protectiveness of groundwater and the expectation is that all contamination will be removed).	Ecology-Price	RL-Charboneau (Roddy)	1/16/08	2/21/08	3/20/08	Meeting held on 2/21/08 to discuss.
109	Set up a meeting with Ecology on U Plant Area pipelines EE/CA.	RL-Leary	Ecology-Price	2/21/08	3/20/08		
110	Set up a meeting with Ecology to resolve 200-CS-1 path forward.	RL-Foley	Ecology-Price	2/21/08	3/20/08		
111	Presentation on MTCA investigation at US Ecology to be presented after the next UMM.	Ecology-Ollero	RL-Charboneau	2/21/08	3/20/08		
112	Send comments on 200-MG-1/2 proposed proposed change requests.	Ecology-Price	RL-Charboneau	2/21/08	3/20/08		

CERCLA 5-Year Review Action Items

Action #	Action/Subject	Assigned To	Assigned To	Due Date	Status
13-1	Complete a data quality objective process and sampling plan to further characterize the technetium-99 groundwater plume near T Tank Farm.	Fluor Hanford			Complete
14-1	Assess treatment options to address technetium-99 near T Tank Farm.	Fluor Hanford			Complete
15-1	Complete data quality objective process and sampling plan to further characterize the high soil conductivity measurements detected at B/C cribs and trenches.	Fluor Hanford			Complete
16-1	Increase the pump size in 200-ZP-1 extraction wells 299-W15-45 and 299-W15-47.	Fluor Hanford			Complete
17-1	Evaluate expanding the soil-vapor extraction operations. Also, specifically review converting former groundwater extraction well 299-W15-32 to a soil-vapor extraction well.	Fluor Hanford			Complete
18-1	Prepare an explanation of significant difference for 200-UP-1 Interim ROD	Ecology		6/1/2008	Ecology working with EPA.

200 AREA UNIT MANAGERS' MEETING OPERABLE UNITS AND FACILITIES STATUS

February 21, 2008

D&D OUs

200-CW-3 EPA

- The remediation completion report for site 216-N- 7 has been approved by RL and EPA.
- Re-vegetation of sites 216-N-2, -5, and -7 is complete.
- The SAP and RAWP are in development for "remaining sites" 216-N-1, -4, and -6, three septic systems, one solid waste site, two UPRs and three pipelines.

Rail Car Disposition Options Study

The railroad car disposition options study is in progress.

Ecology Sites UPR 200-N-1 and UPR 200-N-2 (in Proximity to 200-CW-3)

- TPA change request (C-07-07) was approved. This change request authorizes transfer of waste units 200-N-3, 2607-N, 2607-P, 2607-R, UPR-200-N-1 and UPR-200-N-2 from the 200-MG-1 OU to the 200-CW-3 OU and the assignment of waste units 600-285-PL, 600-286-PL and 600-287-PL to the 200-CW-3 OU.

EE/CA for Buildings 212-N, P, R

The development of the EE/CA has been initiated.

200-BC Control Area (BCCA)

- In process of transmitting revised EE/CA to DOE-RL in preparation for the document to undergo public comment and review.
- Public review for BCCA EE/CA currently targeted to begin 2/25/08.
- MARSSIM Closure Strategy – FH initiating DQO development of analytical data taken to date to support overall planned survey and closure strategy.
- FH performed the field investigation for the Cultural/Historical/Biological/Ecological reviews with PNNL to support the haul road upgrades. The report preparation is in progress.
- FH updating the RAWP for the BCCA planned removal action.

200-UW-1 Ecology

- ROD – The Tri-Parties met on 2/14/08 and no ROD will be pursued until the deep vadose zone characterization around the cribs has been completed. DOE plans to identify all remaining waste sites around the U Plant so that a revised ROD can address all waste sites (except pipelines: see below).
- FH informally transmitted the technical basis documents that describe how the approach being proposed satisfies the applicable or relevant and appropriate requirements of WAC 173-340-747(8) and other State and Federal regulations and guidance to RL on 10/1/07. DOE-RL is resolving some internal comments with the

WM & TF EIS modeling team. The documents are expected to be formally transmitted to the EPA and Ecology shortly.

- Agreement has been reached between DOE-RL, SHPO, and the tribes on the MOA for the Area C Borrow Source.
- Phase III of the 241-U-361 Settling Tank sludge sampling is in progress. The D&D-36146 Final Report for Tank U-361 Core Samples Collected in 2007 was issued on November 29, 2007. A tank characterization report is undergoing internal Fluor review, and scheduled for completion in February.
- U Plant Area pipelines EE/CA (Ecology): DOE no longer plans to complete a separate EE/CA for pipelines in the U Plant Area. DOE plans to disposition the pipelines as part of the 200-IS-1 operable unit (Ecology notes that the 200-IS-1 RI/FS work plan did not plan any characterization for pipelines in the U Plant Area). DOE will set up a meeting to explain.

FACILITIES STATUS

- Submitted Draft C revisions to the U Plant 221-U RD/RAWP for CERCLA implementation and incorporation of the Surveillance and Maintenance Plan.
- Issued the U Canyon CDI Project Experience Summary Report.
- Revised S & M plans were transmitted for approval. S & M plans for U-Plant and U03 are being incorporated in their applicable CERCLA documents.

Facility Binning

- The draft Agreement in Principle to define the Parties' intent to commence negotiations and to establish the scope and schedule of the negotiations was reviewed and discussed.

200-UP-1, 200-CS-1, 200-CW-1 OU Group

200-UP-1

- Values at well 299-W19-36 dropped below the 9,000 pCi/L RAO for Technetium-99. Well 299-W19-36 yielded a concentration of 7,400 pCi/L in a January 8, 2008 sample based on interim results.
 - All other wells are below the interim RAOs of 480 µg/L and 9,000 pCi/L respectively (**Attachments 6 and 7**).
- RI/FS Work Plan:
 - Drilling continues on the remaining six wells (UP-6, UP-7, UP-8, UP-9, UP-10, and UP-12) during the week of 2/15/2008.
 - Two wells have been completed and two wells are nearing completion as of 2/15/08.
- Tc-99 Increase at S-Farm
 - Sample results from 12/8/07 indicated a Tc-99 concentration of 11,000 pCi/L.
- Pump and Treat
 - On 4/19/07, the pumps in wells W19-36 and W19-43 were restarted. As of 1/6/08, the project has pumped about 18,900,000 liters to the LERF Basin 43

at an average rate of approximately 42 L/m (11.1 gpm). These two wells address the higher uranium groundwater concentrations found in the area.

- Quarterly results from the Effluent Treatment Facility were reported. The 200-UP-1 extracted about 5.5 million liters. The ETF treated an estimated 3.91 million liters between October and December 2007. During treatment, the ETF removed an estimated 1.48 kg of Uranium, 18.2 gm of Tc-99 476 kg of nitrate and 250 gm of carbon tetrachloride from the 200-UP-1 wastewater.

200-CS-1

Ecology response has not been received on the Draft B of the feasibility study and proposed plan that were submitted to Ecology on September 27, 2007. A response was expected by October 29. A response on the TSD closure plans was expected by December 26.

At the November 2007 IAMIT meeting, Ecology described plans for the permit modification for the RCRA TSDs and its intention to discontinue use of the CERCLA process, stating that it was far less expensive for Ecology to generate a permit modification than produce a ROD. Ecology also offered alternatives for DOE to address requirements regarding NEPA and residual radionuclides. EPA expressed concern that two separate processes could lead to conflicting decisions.

An Ecology/RL/FH technical meeting was held on February 7, 2008, where Ecology related an updated draft Statement of Basis for 216-A-29 Ditch TSD Unit closure to the Draft A and B FS, Rev 0 RI Report, and Draft A closure plan submitted by RL. Ecology confirmed that RCRA Corrective Action for RCRA Past Practice sites was not included/addressed in the Statement of Basis for 200-CS-1 TSDs. The 216-A-29 Ditch was used as an example, and Ecology confirmed that all five 200-CS-1 waste site-TSDs were intended as RTDs (dig ups) with groundwater monitoring. Ecology has asked RL to provide any issues/concerns with the Statement of Basis.

RL intends to continue within the CERCLA process, as described in TPA primary document DOE/RL-98-28, and meet all of its legal obligations, including those in the RCRA Permit. Ecology reiterated its proposal that DOE address those legal obligations by, (a) preparing a CERCLA Action Memorandum and, (b) consulting with DOE Headquarters (as described in 10 CFR 1021) about NEPA requirements. DOE said it would discuss Ecology's proposal internally, and then schedule a meeting with Ecology.

200-CW-1

(M-015-38B, 5/31/09, Feasibility Study/Proposed Plan) Ecology

• Model Group 5 SAP

- The MG-5 (200-CW-1) SAP, Rev 0, was approved by Ecology on January 16, 2008.
- On 02/07/08, RL/EPA agreed to an additional auger hole with soil samples, in addition to the three already included, nearer the interface with Z Ditch. Page changes will be made, presented to RL and Ecology for acceptance and confirmation that their approvals stand, and then presented to EPA for signature. Clarification of the logging technology to be used in the pond direct pushes will

also be included in the page changes. The SAP is not considered final until all Tri-Parties have signed.

- DOE is expecting to obtain EPA approval by February 28, 2008.
- Delays in gaining approval of the SAP have delayed starting field activities.
- The Waste Control Plan was delivered to Ecology on February 1, 2008. Ecology has made a couple of comments that should be easily resolved with page change. Expect Ecology approval by February 28, 2008.
- On 02/07/08, RL/EPA agreed to an additional auger hole with soil samples, in addition to the 3 already included, nearer the interface with Z Ditch. Changes to the MG-5 SAP will be documented with the TPA form *Change Notice for Modifying Approved Document/Workplans*, consistent with the TPA Action Plan Section 9.3 Document Revisions. Changes include: 1) addition of auger hole in 216-U-10 Pond; 2) commitment to geophysically log 10 existing small diameter probe holes in 216-U-10 Pond, if feasible; 3) Clarified the locations proposed for use of the high purity germanium (HPGE) spectral tool and the small diameter scintillation spectral tool; 4) Clarified the number and locations for QC soil samples; and 5) minor edits.

Supplemental Characterization

Currently, addendums are in preparation for 200-LW-1 and LW-2; 200-PW-5 and 200-TW-1; and 200-TW-2.

200-BC-1, 200-IS-1, 200-CW-5, & 200-SW-1/2 OU Group

200-BC-1

(M-15-51, 4/30/10, Feasibility Study/Proposed Plan) EPA

- SAP for electrical resistivity correlation was approved November 28, 2007. Drilling the first borehole began January 30, 2008, and is nearing completion. Drilling the next borehole began on February 19, 2008.
- Excavation-based treatability test Phase I report approval is in progress. Advance authorization to install infrastructure elements was requested. EPA asked for a map.
- Treatability Test Phase II planning/preparations continued.
- Waste Control Plan (SGW-34277) is being revised to establish WCSA for ERDF cans and increase emphasis on the excavation portion of the TT.

200-IS-1

(M-13-27, 6/30/07, RI/FS Work Plan) Ecology

- Resolved 83 of 88 comments.
- Ecology suggested taking the remaining five comments to dispute resolution as laid out in TPA Action Plan Figure 9-1. DOE will be sending a letter to Ecology that will initiate the dispute.

200-CW-5

(M-15-40D, 7/31/08, Feasibility Study/Proposed Plan) EPA

Feasibility Study and Proposed Plan are on schedule for submittal July 31, 2008.

200-SW-1/2

(M-13-28, 9/30/07, (Completed) RI/FS Work Plan) Ecology

- Received Ecology's comments on Draft B Work Plan on February 12, 2008.
- Comments are being reviewed and responses are being developed.
- Two documents in the Work Plan were cited as "in process" and are now being finalized to share with Ecology (ECD – end of February).
- Coordination between Model Group 5 SAP – It is Ecology's expectation that Model Group 5 will characterize the 216-T-4B and 216-T-4-2 waste sites, but 200-SW-2 remedy will address the remedy for those sites (Ecology).

200-ZP-1, 200-PW-1/3/6 OU Group

200-ZP-1

(M-15-48B, 9/30/07, Feasibility Study/Proposed Plan) EPA

- Remediation Treatment Status:
 - Between October 1, 2007 and January 28, 2008 the 200-ZP-1 pump-and-treat system average pumping rate was approximately 231 gpm.
 - Eight of ten 200-ZP-1 extraction wells are currently on line pumping water at approximately 230 gpm. Extraction well #2 is currently down awaiting a pump to be replaced. Extraction well #10 is also down in preparation for soil removal activities. A control valve in extraction well #6 is preventing maximum flow rate.
 - Soil removal work at the groundwater spill area west of TX-TY Tank Farm is starting Thursday, February 21, 2008.
 - Additional soil samples were collected from the vicinity of the spill area near well W15-765. The data from these samples showed no detection of elevated groundwater contaminants.
 - Trend data for carbon tetrachloride in extraction well 299-W15-6 showed increasing concentrations from previous months (**Attachment 8**). This well is scheduled to be sampled again in around six weeks.
 - The 200-ZP-1 interim remedial design report (DOE/RL-96-07, Rev. 4) is currently being updated to add the four new 200-ZP-1 extraction wells to go on line by the end of FY2008.
 - The design for the tie-in of the four new extraction wells to the ZP-1 treatment building is 60% complete at this time. Injection tests have started to verify that the current injection wells will accept 500 gpm. Well development activities are scheduled for three of the four new extraction wells to attempt to clean out the fine grained sediment.

- A functional and operation requirements document is currently being prepared that identifies at a high level the requirements for the final treatment system for the 200 West Area. It addresses regulatory requirements, design parameters, operational requirements, quality assurance, etc.
- A national solicitation is currently being prepared for ex-situ treatment options for 200-West Area groundwater.
- A draft pre-conceptual design document is currently being prepared that will identify the location of the final extraction/injection well network, well completions, transfer stations, treatment facility, etc.
- Currently pulling together the important components of the PP and FS for EPA's use in preparing the ROD.
- Four of five new water level monitoring stations have been installed in the vicinity of the new T Tank Farm extraction wells W11-45 and W11-46.
- Wells 288-W11-45 and 299-W11-46 have pumped an estimated 30,482,221 liters (8,052,551 gal) to ETF between September 12, 2007 and February 19, 2008.
- RI/FS Status:
 - FS and PP Report:
 - The Draft B FS and PP was issued to DOE-RL on January 31, 2008 to meet the TPA revision schedule.
 - The full quantitative assessment of the two Native American scenarios is currently being performed and will be included in the final report (Revision 0).
 - **Attachments 12 and 13** present a map showing the location of new groundwater well C5572 (299-W11-88) and Draft depth-discrete groundwater data. Recommendation is to complete this well with a 40 ft screen at the very bottom of the aquifer.
- Tc-99 Investigation Status:
 - T Tank Farm Investigations:
 - Aquifer testing will be performed this spring in well 299-W11-46 to determine if modeling assumptions used are reliable. This will require extraction well 299-W11-45 to be taken offline next week. The new "T-6" (W11-89) well will be positioned shortly after this testing has been completed.
 - Purolite Resin Treatability Testing:
 - The Purolite Resin Test Report is around 40% complete. We are still waiting for WSCF to provide a last set of sample results. The internal draft report will be issued near the end of March 2008.
 - Sampling crew is working with radiation safety group on a way to safely collect depth-discrete core samples through the W15-765 Purolite resin canister.

200-PW-1, 200-PW-3, & 200-PW-6

(M-15-45B, 9/30/07, Feasibility Study/Proposed Plan) EPA

- Responses were prepared to comments received from EPA and the State of Oregon on the PW-1/3/6 FS and PP. The transmittal of these comments to EPA is in the DOE concurrence process.
- Soil Vapor Extraction System (SVE):
 - The SVE system is currently being prepared for an April 1, 2008 startup.
 - Design specifications are being prepared for two new 500 cfm SVE units that are to be delivered this fiscal year.
 - The conversion of three existing wells to SVE wells is on schedule to be complete by the end of March 2008.
 - The passive systems remain operational.
 - Monthly monitoring results for January 2008 for the three narrow diameter wells south of 216-Z-9 are shown in **Attachment 9**. The 12/04/07 data appear to be non-representative of in situ conditions and will not be included in future plots of the data. The carbon tetrachloride concentration in CPT-17/10 ft near the 216-Z-9 Trench was 1.7 ppmv in January 2008, suggesting that the concentration of 21.5 ppmv in December 2007 was anomalous. Carbon tetrachloride concentrations in the other wells and probes monitored during January 2008 were consistent with previous results.
 - A draft TPA Change Request, M-83-08-01, was presented to Ecology and EPA for review, at the PFP Project Managers' Meeting on February 21, 2008. The TPA Change Request proposes to transfer the scope for the dismantlement of the 216-Z-9 crib complex to be included in the remedial action associated with the 200-PW-1 OU.

200-MW-1 & PW-2 OU Group

200-MW-1

(M-15-44B, 12/31/08, Feasibility Study/Proposed Plan) EPA

- Decommissioning of the high-risk borehole in the 216-A-2 Crib is nearly completed. All casings have been removed as of January 3, 2008. All that remains is to construct surface pad and install small enclosure to house deep probe connection.
- Work continues on the mini-RI for the supplemental investigations.
- The draft RI (DOE/RL-2005-62) documenting investigations of sites that have since been parsed to others OUs is being revised for issuance as a Rev 0 in March or April of 2008.
- We are assembling the FS team and selecting contractors to participate.

200-PW-2 & 200-PW-4

(M-15-43D, 12/31/10, Feasibility Study and Revised Recommended Remedy(ies)) Ecology

- One surface electrical resistivity line remains to be shot, and it will include waste sites in the area south of Purex. The field work was scheduled for February 8th but adverse weather (high winds) caused a site closure. The work is rescheduled and should be

completed by February 18th.

- The SAP for field investigations at the 216-A-5 and 216-S-1/2 Cribs are under preparation. Internal review should be complete by February 21st.

200-MG-1/2 & ECO OU Group

200-MG-1/200-MG-2 Model Group 1 Sites

(M-15-49A, 12/31/08, MG-1 Feasibility Study/Recommended Remedy) Ecology

(M-15-49B, 12/31/08, MG-2 Feasibility Study/Proposed Plan) EPA

- On 1/14/08, EPA indicated that insufficient characterization data exists for the 200-MG-1/2 waste sites to perform a baseline risk assessment, a circumstance which would preclude issuance of a final Record of Decision (ROD). EPA indicated that a preferred regulatory pathway was a non-time critical removal action, through an EE/CA and an action memorandum instead of the currently planned feasibility study, proposed plan, and ROD.
- In a follow-up meeting held on January 24, 2008, DOE-RL, EPA, and Ecology agreed to pursue this new regulatory pathway for the 200-MG-1 and 200-MG-2 OUs, which would require redefinition of the current M-015-49A and M-015-49B TPA milestones. The current TPA milestone dates would not be affected. However, by consensus, it was agreed that these milestones would no longer be held under M-015, but would shift to the M-016 category because the waste sites in the 200-MG-1 and 200-MG-2 OUs are considered low risk/low priority waste sites.
- RL has shared a draft TPA change request with EPA and Ecology. EPA has indicated that concerns still must be resolved over the final closure protocols for the sites that would be remediated through the removal action.
- In order to meet the 12/31/08 milestone date for the 200-MG-1/2 EE/CAs and Action Memos, FH is re-planning and re-directing the subcontractor activities.
- Several regulatory issues must be resolved in the near-term to support timely completion of the milestone. Foremost of these is the position taken on groundwater protection PRGs. Ecology repeated its previous statements that groundwater PRGs should not be a primary consideration for removal actions for radionuclides.

Ecological Risk Assessment

- The Draft A version of the Ecological Risk Assessment Report was transmitted to RL on 2/1/08. A re-issue version with some word changes will be transmitted to RL on or about 2/26/08.
- ERA Draft A transmittal to Regulators will likely occur on or around 3/11/08.
- A workshop has been set for March 26, 2008 with the Tri-Party Agency decision-makers, tribal participants and external stakeholders to discuss the risk assessment results.

200-BP-5 & PO-1 OU Group

200-BP-5

(M-13-06B, 3/31/07, RI/FS Work Plan, Completed) EPA

(M-15-21A, 10/31/10, Feasibility Study/Proposed Plan) EPA

Drilling:

- Well 699-52-55A/C5861, located north of the 200 East Area (Figure 1, **Attachment 10**), was accepted 2/13/2008. This well's initial capacity was 500 ml/minute or four-to-five gallons/hour. At the time of well acceptance the capacity had increased to approximately nine gallons/hour.
- Drilling of well 299-E33-343/C5858 began Jan 8, 2008 (Figure 2, **Attachment 11**).
 - Saturated moisture conditions were encountered at 226.6' bgs.
 - Continuous split spoon sampling was completed from above the perched water to current depth (240' bgs) as of Monday 2/18/2008.
 - Gross beta values ranged from 19 to 118 pCi/g in the sediments from 225 to 237.5' bgs.
 - Deeper samples were not reported as of Tuesday, 2/19/08, 9:00 AM.
 - Completed geophysical logging 2/12/2008.
 - Waiting on analytical results.
- Well 299-E33-344, located north of B Tank Farm near well 299-E33-18 was completed in a perched aquifer (Figure 2).
 - Saturated moisture conditions were encountered at 225' bgs.
 - Continuous split spoon sampling was completed from 225 to 237.5 bgs.
 - Gross beta values ranged from 13.7 to 24.9 pCi/g in the saturated sediments.
 - Completed well in the perched zone. The screen is from 218' to 237' bgs.
 - Completed geophysical logging.
 - Waiting on analytical results.
- Drilling of well 299-E33-345/C6226 began Jan 24, 2008 (Figure 2). This is a supplemental well to be completed as a monitoring well in the unconfined since well 299-E33-344 was completed in the perched aquifer.
 - Grab samples have been collected from 216' to 245' bgs as of Monday 2/18/08.
 - Elevated gross beta values were reported from 230' to 240' bgs. Deeper samples were not reported as of Tuesday, 2/19/08, 9:00 AM.
 - Geophysical logging was completed 2/15/2008 for the first 239' bgs.
 - Drilling is resuming this week with 10" casing.
 - Perched water conditions were not reported in this well.

Groundwater Annual report: being prepared for release.

Groundwater SAP: DOE/RL-2001-49 Rev 2 is in internal review this week.

200-PO-1

(M-13-10A, 9/30/07, RI/FS Work Plan) Ecology

- Work Plan & Characterization SAP
RL transmitted the 200-PO-1 RI/FS Work Plan (DOE/RL-2007-31, Draft A) document to Ecology on 8/31/07 in completion of M-013-10A milestone. Ecology exercised a 30-day extension to review, and completed their review on 11/29/07. Comments were received 12/4/07. RL transmitted comment responses and Rev. 0 to Ecology on 2/4/08. Ecology approved the Rev. 0 document on 2/6/08.

200-SC-1 & 200-LW-1 OU Group

200-SC-1

(M-15-40E, 12/31/10, Feasibility Study/Proposed Plan for 200-SC-1) EPA

- **Supplemental Characterization:**
 - **216-B55 Crib:** Drilling and sampling of the last borehole is scheduled to begin the week of February 11th. The last borehole was originally planned to be installed under a subcontract using direct push technology. However, due to the degree of radiological contamination discovered in the crib, the last borehole will be installed by FHI personnel using government owned equipment, rather than subcontractor personnel without radiation worker training and using unregulated, subcontractor owned equipment. This change has delayed the start of drilling for the 216-A-30 crib borehole.
 - **216-A-30 Crib:** Drilling is scheduled to start the week of February 18th.

200-LW-1/200-LW-2

(M-15-46B, 12/31/11, Feasibility Study/Recommended Remedy) Ecology

- **200-LW-1/2 Site-Specific Field-Sampling Plans (DOE/RL-2007-02-VOL II Rev 1A):**
 - **Draft Document:** The technical content of the initial draft is being reviewed internally.

200-TW-1 & 200-PW-5 OU Group

200-TW-1 & 200-PW-5

(M-15-42D, 12/31/11, Feasibility Study/Proposed Plan for TW-1 & PW-5) EPA

- Rebaseline to incorporate requirements of supplemental RI/FS work plan.
- SSSP in internal review.

200-TW-2 OU Group

200-TW-2

(M-15-42E, 12/31/11, Feasibility Study/Revised Recommended Remedy(ies) for TW-2) Ecology

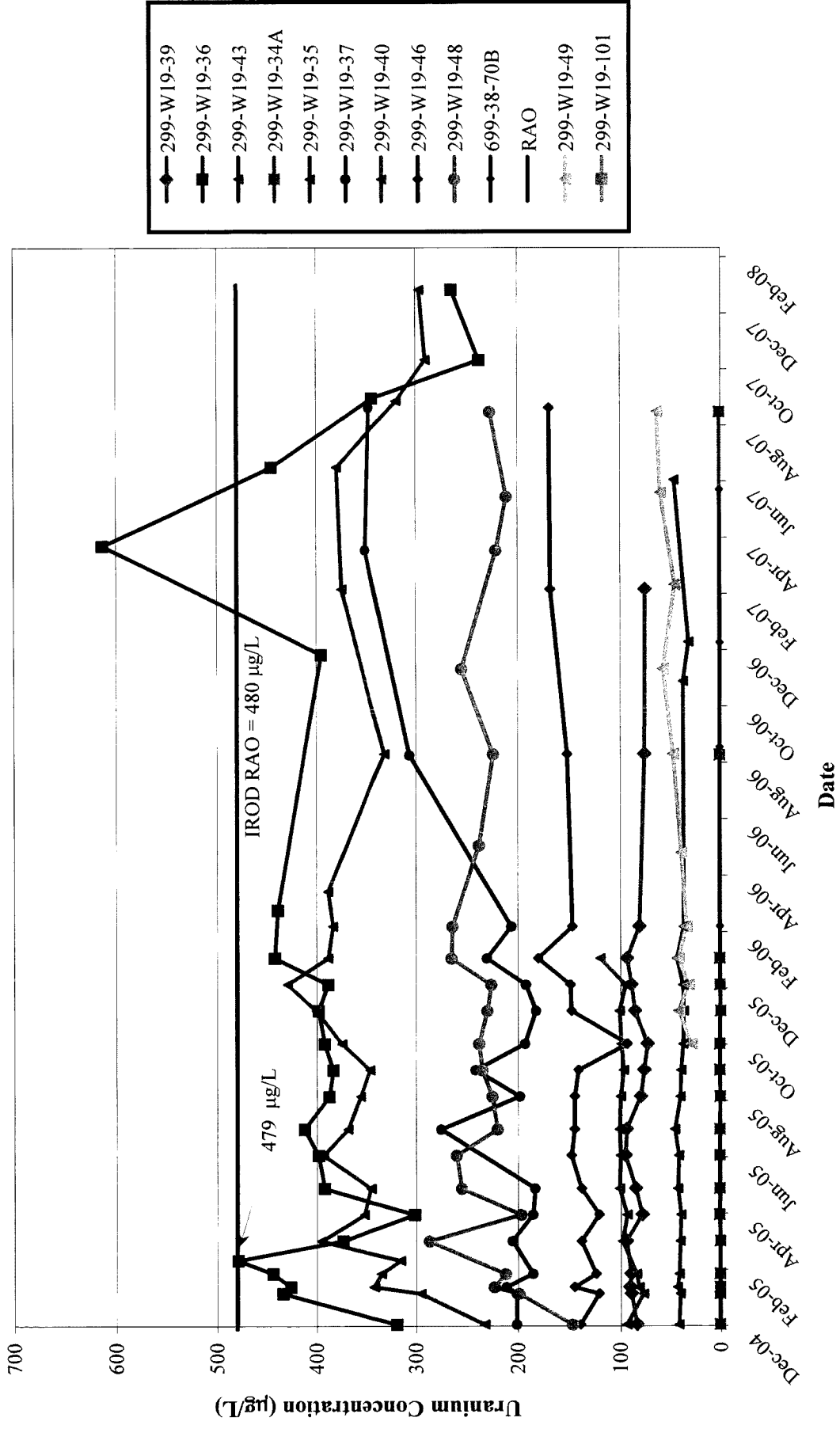
- Rebaseline to incorporate requirements of supplemental RI/FS work plan.
- SSSP in internal review.

200-UR-1

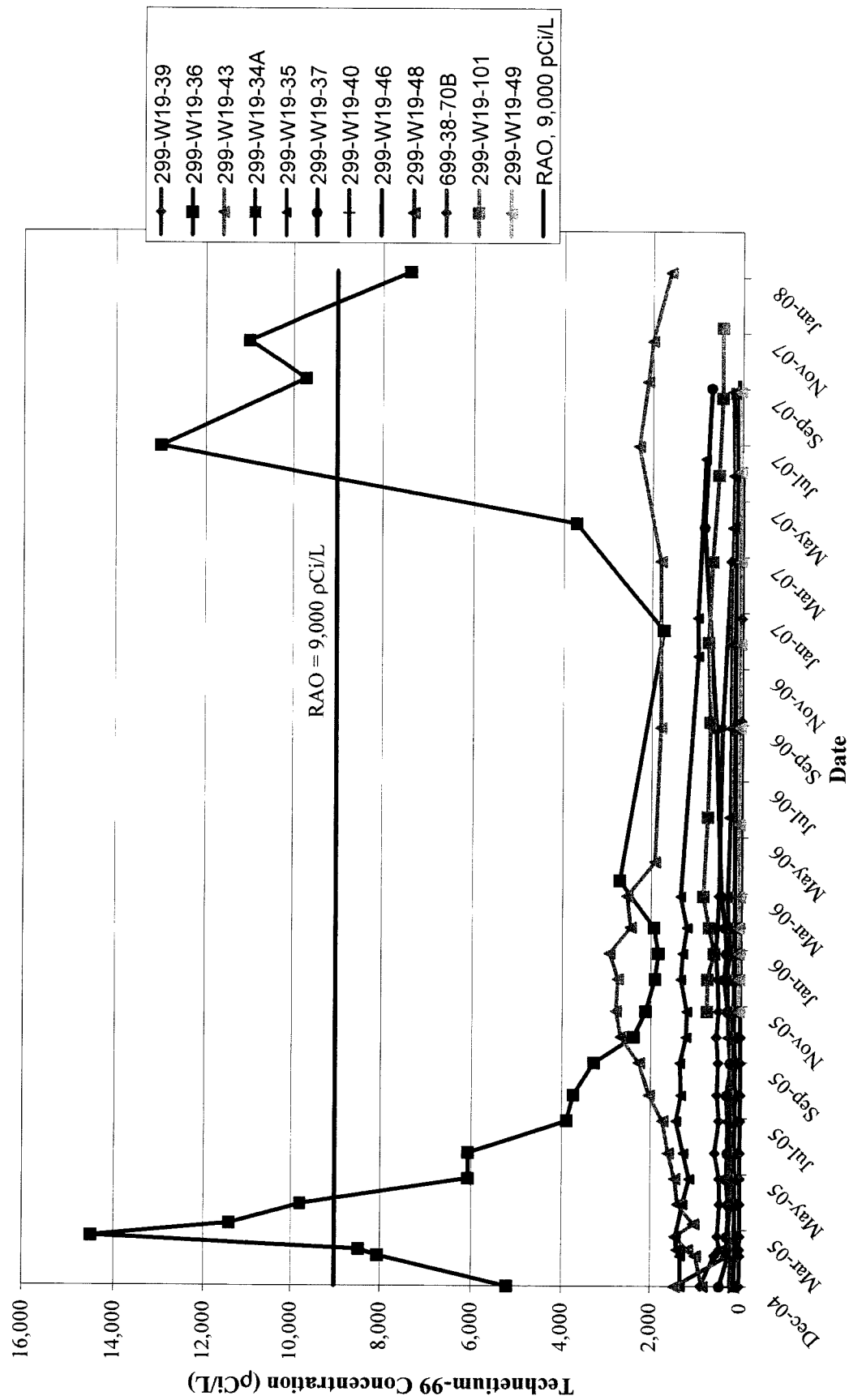
200-UR-1 Ecology

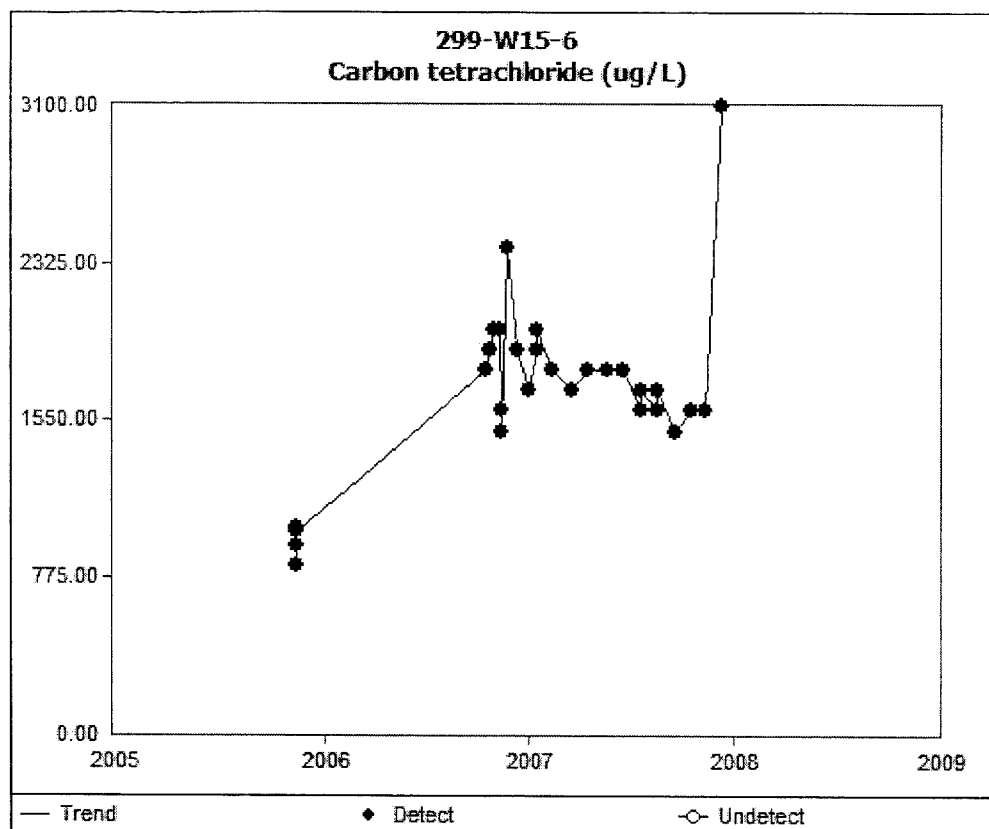
- Radiological surveys for the eastern portion of the BC Control Area are approximately 70% complete. Best estimate, less than five work-days remain, however RCTs are presently engaged in higher priority work.
- West Lake DQO summary report – Latest DQO review workshop with Ecology was held February 14, 2008. Two additional workshops are scheduled for February 25 and 28.

200-UP-1, Uranium ($\mu\text{g/L}$)



200-UP-1, Technetium-99 (pCi/L)





200-PW-1 OU: 3 Narrow Diameter Vapor Extraction Wells

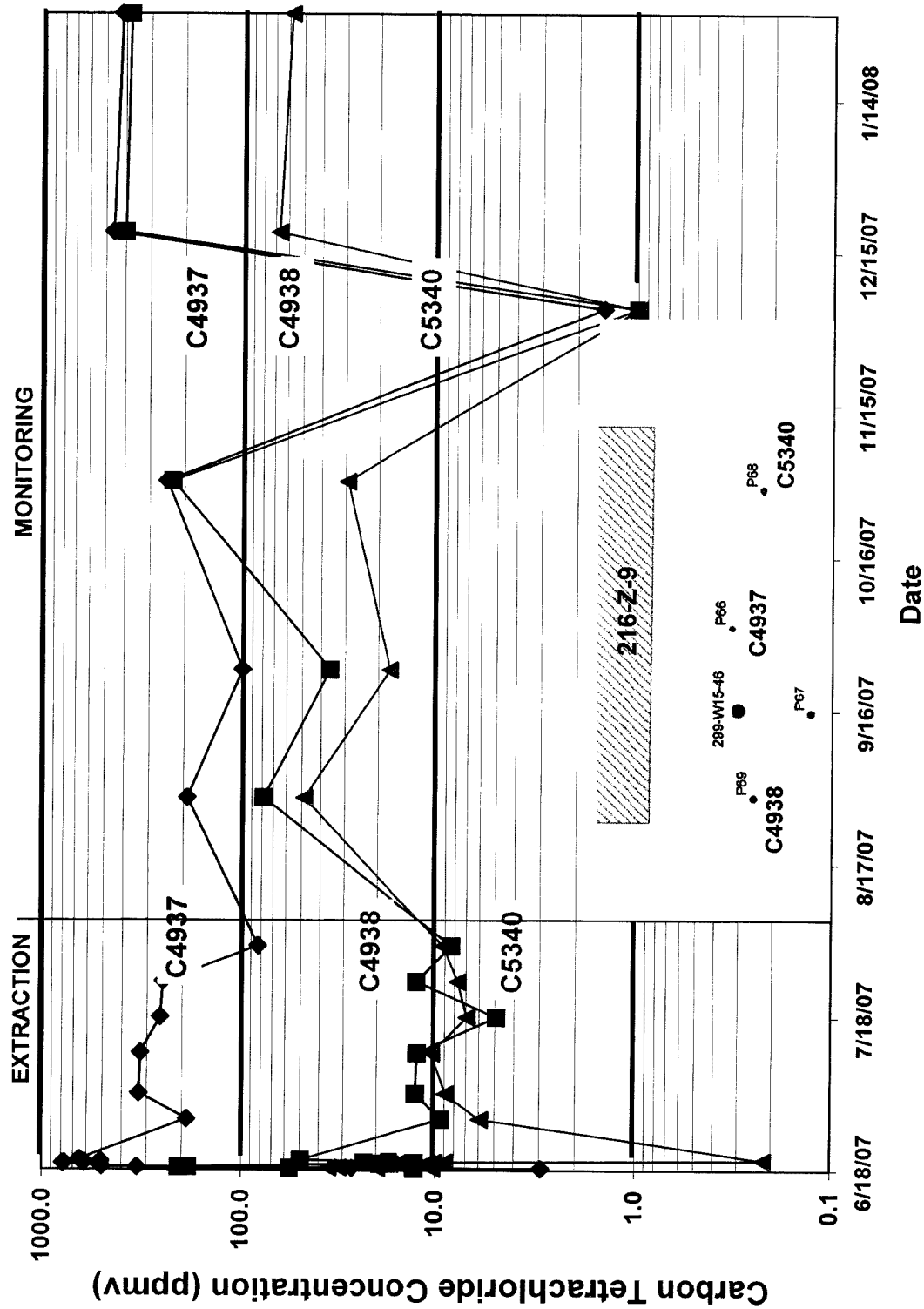
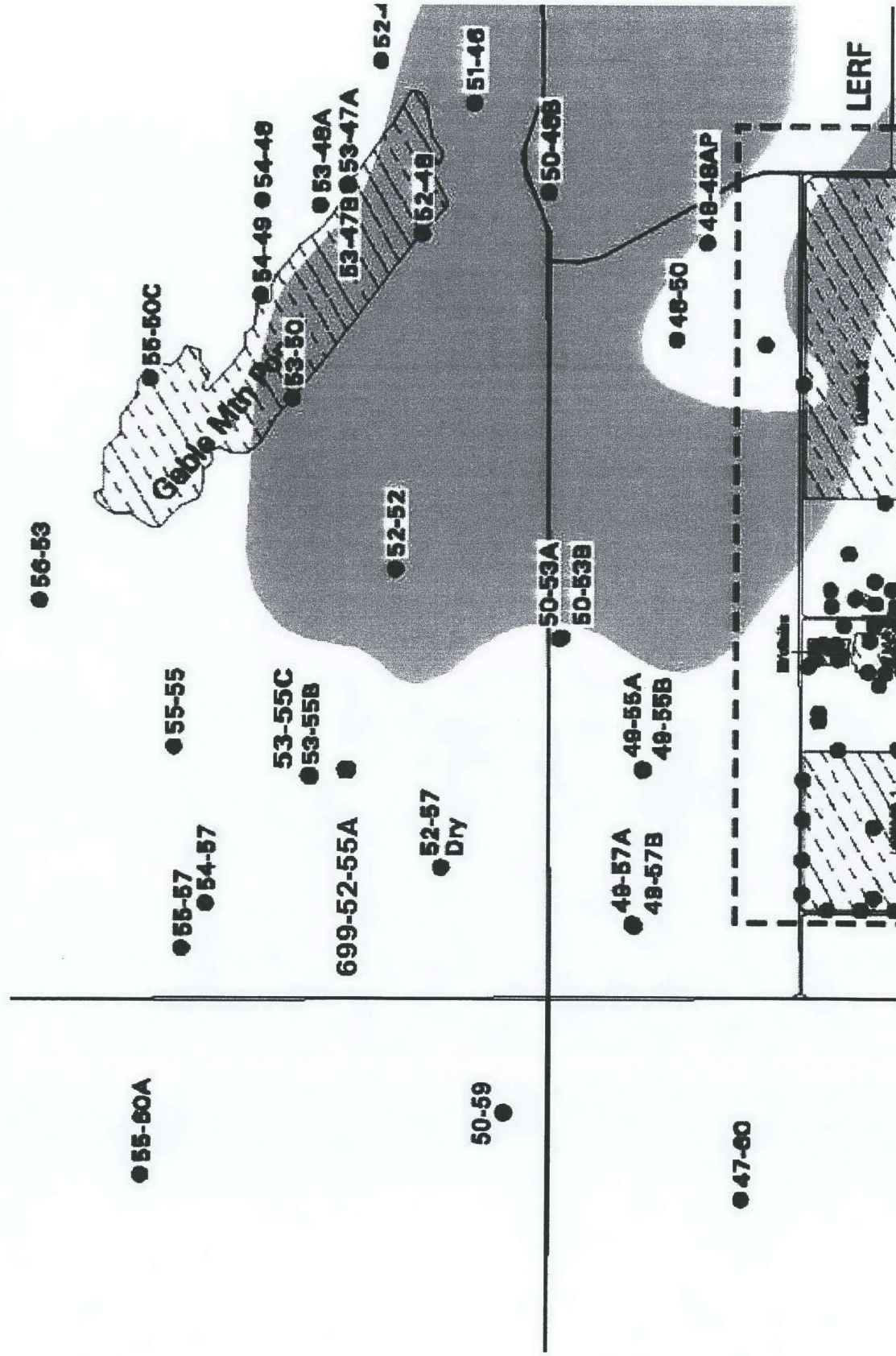


Figure 1: Well 699-52-55A Location Map.



Attachment 12

Draft

C5572 Well Installation Characterization - Groundwater
Field Screening Results

SAF: F07-052

Sample Location	HEIS Number	Sample Date	Sample Time	Sample Depth (ft)	HP 5890 Gas Chromatograph				Hex Chrome	PNNL Analyses - ICPMS			Field Screening				
					TCM (ug/L)	CCl ₄ (ug/L)	TCE (ug/L)	Cr+6 (ug/L)		U-238 (ug/L)	Tc-99 (pCi/L)	Dissolved Oxygen (mg/L)	Conductivity (uS/cm)	Temperature (°C)	pH (No units)	Turbidity (NTU)	Nitrate (mg/L)
C5572, I-1	B1P0M7	11/29/07	12:50	316'-341'	11.0	1100	2.10	3 (B)	1.57E+00	8.070	763	Instrument failure	9.25				
C5572, I-2	B1P117	11/29/07	15:25	336'-346'	13.0	1100	<1	2 (B)	1.57E+00	7.920	682	Instrument failure	8.72				
C5572, I-3	B1P0M9	12/03/07	09:25	356'-366'	39.0	1600	3.2	2 (B)	1.51E+00	7.77	850		7.23				
C5572, I-4	B1P118	12/05/07	11:35	376'-386'	15.6	1700	<1	2 (B)	1.43E+00	7.92	787		7.57				
C5572, I-5	B1P119	12/06/07	13:20	406'-416'	8.6	850	1.1	2.5 (B)	1.36E+00	7.7	846		8.01				
C5572, I-6	B1P120	12/11/07	12:35	426'-436'	6.3	23	<1	2.4 (B)	8.44E-01	7.8	522		4.75				
C5572, I-7	B1P0N7	02/06/08		449.5'-453'	21.0	540	1.8 (J)		1.23E+00	7.617	1545		10.2				
C5572, I-8	B1P121	02/13/08		480.5'-481.9'	7.7	2400 (E)	<1			7.904	617		8.4				
C5572	B1P122					453											
	B1P0N9																
	B1P123																
	B1P0P1																
	B1P124																
	B1P0P3																

445-485